PATENT COOPERATION TREATY PCT

REC'D	30	AUG	2005
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 9869SG114	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416).		
International Application No.	International Filing Da (day/month/year)	te	Priority Date (day/month/year)	
PCT/SG2003/000299	31 December 2003	-	31 December 2003	
International Patent Classification (IPC) or	national classification ar	nd IPC		
Int. Cl. ⁷ G06F 17/27				
Applicant				
AGENCY FOR SCIENCE, TECI	HNOLOGY AND RES	SEARCH et al	·	
1. This international preliminary examina is transmitted to the applicant according		oared by this Internat	ional Preliminary Examining Authority and	
2. This REPORT consists of a total of 3	sheets, including this c	cover sheet.		
This report is also accompanied	by ANNEXES, i.e., shee	ets of the description,	claims and/or drawings which have been	
amended and are the basis for the 70.16 and Section 607 of the Ad			ns made before this Authority (see Rule	
These annexes consist of a total	of sheet(s).		•	
3. This report contains indications relating	g to the following items:			
I X Basis of the report	•			
II Priority			*	
III Non-establishment of op	oinion with regard to nov	elty, inventive step a	and industrial applicability	
IV Lack of unity of invention	*	• .	·.	
V X Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;				
VI Certain documents cited	citations and explanations supporting such statement VI Certain documents cited			
· <u>-</u>				
. Certain observations on the international application				
Date of submission of the demand Date		Date of completion of the report		
1 August 2005		17 August 2005		
Name and mailing address of the IPEA/AU		Authorized Officer		
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA				
E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929		MATTHEW HOLLINGWORTH		
(-, 2200 8727	-	Telephone No. (02) 6283 2024		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SG2003/000299

I.	Basis of the report				
1.	. With regard to the elements of the international application:*				
	X the international application as originally filed.				
	the description, pages, as originally filed,				
	pages, filed with the demand,				
	pages, received on with the letter of				
	the claims, pages, as originally filed,				
	pages, as amended (together with any statement) under Article 19,				
	pages, filed with the demand,				
•	pages, received on with the letter of				
	the drawings, pages, as originally filed,				
	pages, filed with the demand,				
	pages, received on with the letter of				
	the sequence listing part of the description:				
	pages , as originally filed.				
	pages, filed with the demand				
	pages, received on with the letter of				
2.	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.				
	These elements were available or furnished to this Authority in the following language which is:				
	the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).				
	the language of publication of the international application (under Rule 48.3(b)).				
	the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).				
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international				
	preliminary examination was carried out on the basis of the sequence listing:				
	contained in the international application in written form.				
	filed together with the international application in computer readable form.				
·	furnished subsequently to this Authority in written form.				
	furnished subsequently to this Authority in computer readable form.				
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.				
	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished				
4.	The amendments have resulted in the cancellation of:				
	the description, pages				
	the claims, Nos.				
	the drawings, sheets/fig.				
5.	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**				
*	* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this				
	report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).				
**	** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report				

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SG2003/000299

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement	1.	Statement
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Novelty (N)	Claims	1-23		YES
	Claims			NO
Inventive step (IS)	Claims		è	YES
,	Claims	•		NO
Industrial applicability (IA)	Claims	1-23		YES
	Claims		ii)	NO

- 2. Citations and explanations (Rule 70.7)
 - D1: Zhou, G. et al, Named Entity Recognition Using an HMM-based Chunk Tagger Proc. 40th Annual Meeting of the Association for Computational Linguistics, pp. 473-80, July 2002
 - D2: Bikel, D. M. et al, An Algorithm that Learns What's in a Name Machine Learning, vol. 34, pp 211-31, 1999
 - D3: Katz, S. M. Estimation of Probabilities from Sparse Data for the Language Model Component of a Speech Recognizer, IEEE Trans. on Acoustics, Speech and Signal Processing, Vol. 35, pp. 400-1, 1987
 - D4: Saito, K. et al, Multi-Language Named-Entity Recognition System Based on HMM
 Proc. ACL 2003 Workshop on Multilingual and Mixed-Language Named Entity Recognition, pp. 41-8
 - D5: US 6,052,682 A (MILLER et al), 18 April 2000
 - D6: US 6,311,152 B1 (BAI et al), 30 October 2001
 - D7: US 2003/0191625 A1 (GORIN et al), 9 October 2003

The above documents represent the closest available prior art, and do not anticipate the claimed invention.